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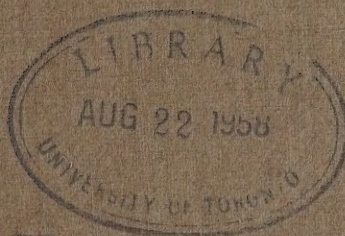
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Report 15

HYDRO-ELECTRIC INQUIRY COMMISSION

REPORT
ON
MUSKOKA SYSTEM

W. D. GREGORY, CHAIRMAN
M. J. HANEY
LLOYD HARRIS
J. ALLAN ROSS
R. A. ROSS

COMMISSIONERS

JOSEPH H. W. BOWER
SECRETARY



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COPY

MUSKOGA SYSTEM

M U S E U M S Y S T E M

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HYDRO-ELECTRIC INQUIRY COMMISSION
W. D. GREGORY, CHAIRMAN
ECONOMICS OF H. E. P. C. DISTRIBUTION SYSTEMS,
EUGENIA, SEVERN AND WASDELL'S SYSTEMS,
AND MUSKOKA SYSTEM
MAP SHOWING LOCATION OF
GENERATING STATIONS, TRANSFORMER STATIONS AND
TRANSMISSION LINES

Toronto, April 14th, 1923. Made by *W. J. Francis* Checked by *W. J. Francis*
WALTER J. FRANCIS & COMPANY
 CONSULTING ENGINEERS

GENERATING STATIONS
 * LOW TENSION TRANSFORMER STATIONS
 o MUNICIPALITIES SERVED BY H.E.P.C. WITHOUT LOCAL TRANSFORMER STATIONS.
 NOTE: TRANSMISSION LINE VOLTAGE SHOWN THUS 22,000

此後，我與陳永發、陳冠中小聚，談話中，陳冠中說：「我與陳永發，是『左派』與『右派』的結合。」

**Map Showing location of the Eugenia, Severn,
Wassell's and Muskoka Systems**

COPY

The area outlined in red shows
the Muskoka System.

Hydrographic Survey Commission
U. S. Navy
Commander in Chief, U. S. Navy
Hydrographic Survey
and Mapping Service
NAVY SURVEYING SERVICE
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NAVY SURVEYING SERVICE

To His Honour Henry Cockshutt,

Lieutenant-Governor of the Province of Ontario.

May it Please Your Honour:-

The undertaking of the Hydro-Electric Power Commission of Ontario (hereinafter referred to as "the Commission") known as the "Muskoka System", has been inquired into in pursuance of the directions contained in Your Honour's commission to us, and the results of our investigations thereof are embodied in the following report. Full details of the engineering features and of the accounts of the System are to be found in the reports respectively of our Consulting Engineer, Mr. Walter J. Francis, and of our Accountants, Messrs. Price, Waterhouse & Company, which are transmitted to Your Honour herewith.

District served by the System

Mr. Francis has prepared a map showing the location of the generating plants, transformer stations and transmission lines of the Eugenia, Severn, Wadell's and Muskoka Systems. On the copy of the map prefacing this report is outlined in red a part of the District of Muskoka known as the "Muskoka System." No rural lines have been constructed in the district and the only municipalities therein at present supplied with electrical energy by the Commission are the towns of Huntsville and Gravenhurst, the former being about thirty miles north of the latter. Parts of the Districts of Parry Sound and Haliburton

might be added to the System if necessary.

Historical Sketch

On September 13th, 1909, the Commission reported to the town of Huntsville the results of an investigation into power conditions in the district, having in view the supply of electrical energy to that municipality. On September 1st, 1911, a further report was made with special reference to the possible development of a power site at High Falls on the north branch of the Muskoka River.

At this time and for a period extending back to 1906, the town of Gravenhurst had been supplied with electrical power from its own plant located at South Falls on the south branch of the Muskoka River about seven miles north of the town. No change affecting the power situation of the municipalities of Huntsville and Gravenhurst took place until 1915 when the acquisition of the South Falls plant was considered by the Commission.

The Hydraulic Engineer of the Commission on June 28th, 1915, reported that:

"An accurate distribution among the various classes of service is not possible with the data available from the municipalities' books, but a fairly reasonable pro rata distribution can be made on the basis of the valuation figures hereto attached."

The figures referred to are as follows:

Items	Replacement Cost as at June 28th, 1915	Present Value
Generation	\$52,158	\$39,336
Transmission	10,120	4,048
Transformation	15,000	10,342
Distribution	15,566	8,734
T o t a l s	\$90,834	\$62,459

The report suggested that the sum of \$42,588.61 be paid to the municipality for the generating plant.

On March 10th, 1915, a contract was entered into between the municipal corporation of the town of Huntville and the Commission for a supply of power, and on October 25th, 1915, a power contract was made with the municipal corporation of the town of Cravenhurst. In October, 1915, the Commission purchased from the town of Cravenhurst the power development at South Falls owned by the municipality and consisting of certain lands, storage dam, power house, generating equipment, etc. The town retained its transmission, transforming and distributing plant and equipment. The consideration to the municipality for the sale of the generating plant was the assumption by the Commission of uncured debentures to the amount of \$50,595.95 issued and sold by the municipality.

The purchase was approved by Order-in-Council which states in part:

The figures referred to are as follows:

Item	Estimated Cost	Actual Cost
Construction	\$10,000,000	\$10,000,000
Equipment	1,000,000	1,000,000
Transportation	1,000,000	1,000,000
Administration	1,000,000	1,000,000
Total	\$13,000,000	\$13,000,000

The report suggested that the sum of \$40,000.00 be

paid to the committee for the services rendered.

On March 10th, 1910, a contract was entered into

between the committee and the firm of Messrs. J. H. and

the committee for a supply of paper, and of October 1910.

In 1910, a large contract was made with the committee for the

of the firm of Messrs. J. H. and Messrs. J. H. and Messrs. J. H.

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supplies of paper, ink, and other materials, including supplies

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"The Committee of Council advise that in view of the contracts entered into with the municipalities of Huntsville and Gravenhurst, and the request of other municipalities in the district for a supply of power, the said Commission be authorized to take over the property and development now owned by the municipality of Gravenhurst."

The purchase was made in October; the Commission commenced operating the plant on November 1st, and the Order-in-Council was passed on November 16th, 1915. The authority to the Commission to make the purchase was obtained after it had been completed and the Commission had taken possession. The agreements for the supply of power with the municipal corporations of Huntsville and Gravenhurst were by the Power Commission Amendment Act of 1916 "confirmed and declared to be legal, valid and binding upon the parties thereto respectively and shall not be open to question upon any grounds whatever, notwithstanding the requirements of The Power Commission Act, or the amendments thereto or any other Statute." Each of the agreements extends over a period of sixteen years from the date of the first delivery of power under it. Both agreements provide for annual payments on account of sinking fund,—that with the corporation of Huntsville over a period of sixteen years. The agreement with the corporation of Gravenhurst makes no provision as to the time within which the sinking fund is to be accumulated.

Following the purchase of the South Falls plant, a re-valuation thereof was made by the Engineers of the Commission

[illegible]

The purchase was made in 1960; the Commission

but have completed and the Committee has been informed.

It has been determined to make the purchase and should also be

in January was passed on November 20th, 1911. The committee

consequently operating the plant in December 1st, and the United

The agreement's key provisions are:

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1941-1942 with the corporation of Greenville over a period of

THE UNIVERSITY OF CHICAGO

Information reported was used by the engineers at the Damodar Corporation for purposes of the design of the dam.

in order that the value of the properties on the books of the Commission might conform with the purchase price - \$50,395.93. The value of the physical assets was placed at \$33,439.00 and of intangible assets at \$17,366.00.

On November 1st, 1915, the Commission commenced operating the generating station at South Falls and supplying the municipality of Gravenhurst with about 250 horse-power over the municipality's transmission line, 8.2 miles in length, at the generator voltage of 6,600 volts.

The Commission immediately proceeded to increase the capacity of the South Falls plant. A transmission line constructed from Huntsville to the plant, a distance of about 26 miles, was tested on August 15th, 1916, and ten days later the new equipment at South Falls was put into service and electrical power therefrom supplied to the town of Huntsville at 22,000 volts.

During the period of construction of the extensions to the South Falls plant the power requirements of the town of Gravenhurst were continuously met by operation of the original generating station. On completion of the new unit, the old one was shut down pending overhauling and improvement and was again put into operation in 1917.

In the year 1920 the full capacity of the South Falls generating station was required to meet the power demands of the two municipalities, which had steadily increased. In that

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The Commission immediately requested to improve the

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year a further investigation of the undeveloped power possibilities and ultimate capacity of the South Falls plant was made. The demand for power from the town of Huntsville, however, diminished towards the end of 1920, owing to industrial difficulties of the Anglo-Canadian Leather Company, the largest individual consumer of power in the system. In 1921 the average load decreased about 150 electrical horse-power. In 1922 there was an increase in load, the maximum peak being 1,456 electrical horse-power and the horse-power billed, 1,344. The portions of the districts of Muskoka, Parry Sound and Haliburton which might be included in the Muskoka System had in 1921 a combined population of about 21,000. Of this number about 3,600 were residents of Huntsville and Gravenhurst, the only municipalities which have as yet entered into contracts with the Commission. Of this population of 3,600 about 814 were consumers of power on October 31st, 1921.

Expenditures of the Commission in Respect of the System

In addition to the cost of the properties acquired by the Commission from the municipality of Gravenhurst, as above mentioned, by the assumption of debentures amounting to \$50,595.33, the Commission expended to October 31st, 1922, on extensions and improvements of the works of the system, the sum of \$162,194.89, of which the expenditures to October 31st, 1917, amounted to \$139,543.07. The specific appropriations made by the Legislature for this system, to October

that a further investigation of the unexplained growth possibilities and ultimate capacity of the South Wales plant was made. The annual 1950 survey from the town of Newcastle however, finished around the end of 1950, owing to industrial situation of the region-Lancashire textile industry. The industrial character of power in the region. In 1951 the survey was continued about 100 electrical sites-power. In 1952 there was an increase in load, the annual peak being 1,444 electrical horsepower and the base-power being 1,144. The position of the district of Lancashire, Derby county and Cheshire which might be included in the industrial system was in 1951 a combined population of about 2,500,000. Of this number about 2,000 were residents in Newcastle and surrounding, the only residential area which have not entered into contact with the community. Of this population of 2,500,000 about 100,000 were residents of power in Lancashire, 1951.

Investigation of the Lancashire 1950 survey of the region

is added to the rest of the population survey of the Lancashire from the municipality of Newcastle, as shown in Table 1. The investigation of Lancashire covering the 1950-1951, the population exposed to Newcastle, 1951, as shown in Table 1. The investigation of the rest of the region, the rest of the region, of which the population is shown in Table 1. The investigation of the rest of the region, the rest of the region, of which the population is shown in Table 1. The investigation of the rest of the region, the rest of the region, of which the population is shown in Table 1.

31, 1922, amounted to \$279,093.92, of which \$200,000.00 was voted for the year ending October 31st, 1919. In this as in other instances that we have pointed out, expenditures were apparently made by the Commission out of monies not appropriated therefor, and appropriations made in subsequent years exceeded the total expenditures made for the system, including the debentures assumed.

The expenditures for extensions and improvements were in respect of the following:

Power Development -

South Falls generating station	\$43,488.95	
Hydraulic Construction, etc.	<u>54,235.79</u>	\$ 97,724.74

Wood Pole Lines -

Transmission Line from South Falls generating station to the town of Huntsville	\$52,700.07	
Miscellaneous	<u>1,613.37</u>	54,313.44

Distributing Station at Huntsville -

Building	\$ 1,500.53	
Electrical and other Equipment	<u>8,396.32</u>	9,896.85

Miscellaneous during 1922 -

259.86

**Total expended for extensions and
improvements since October, 1915 -**

\$142,194.89

The extensions and improvements were undertaken by the Commission under force account with the exception of the power house superstructure, a contract for which was let to Messrs. Witchall & Sons, of Toronto.

The installed capacity of the plant is approximately 1200 electrical horse-power at 80% power factor.

(8)

Improvements and extensions were contemplated by the Commission during 1923, and the following appropriation has been voted by the Legislature for the purpose:

"Muskoka System"

"To provide for and betterments to stations or lines, the necessity for which may develop - \$5,000.00."

Cost per Horse-power

The following table indicates the fractional capital costs per rated horse-power developed for the years 1916 to 1921, inclusive:

COPY

	Fiscal years ending October 31st.					
	1916	1917	1918	1919	1920	1921
Power Development	\$164.10	\$ 99.50	\$106.00	\$108.80	\$115.80	\$116.00
Transmission Lines	109.50	42.40	42.40	42.40	42.40	42.40
Transforming and Distributing Stations	19.60	6.96	7.52	7.53	7.65	7.74
T o t a l s	\$292.20	\$148.86	\$154.92	\$158.73	\$165.85	\$166.14

It will be seen from this table that the capital costs per rated plant horse-power developed are high for 1916. This is due to the fact that the repairs and additions to the South Falls plant were made during that year and the expenditures therefor were included while no additional power had yet been made available.

Total Revenues

The following table gives the Commission's revenue from the System for the years 1916 to 1922, inclusive, after

Department and estimates were contemplated in the
 Committee's Bill, and the following investigation has been
 made by the Legislature for the purpose:

COMMITTEE REPORT

It appears from the Committee's
 report that the following is the
 result of the investigation made by the Committee.

THE COMMISSIONER'S REPORT

The following table indicates the Commission's report
 on the various matters referred to the Commission in the
 year 1901, and shows:

1901					1902				
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deduction of credits to the municipalities resulting from a reduction in 1920 and made effective from 1917 of the annual renewal rate from 3.5% to 2.5% on the total capital investment. Since the preparation of the part of this table relating to the years prior to 1922, a further reduction has been made in the annual provision for depreciation from 2.5% to 1.25%, which was also made retroactive, resulting in a further credit to the municipalities of \$13,383.92 to October 31st, 1921, the effect of which on each year's revenue is shown below. The figures for 1922 are based on the renewal rate of 1.25%.

COPY

Table of Annual Revenues

Particulars	Fiscal year ending October 31st				
	1918	1919	1920	1921	1922
From -					
Municipalities	\$21,758.80	\$25,035.83	\$25,063.44	\$27,121.94	\$29,637.09
Sundry Customers	56.55	56.05	51.19	51.00	51.00
T o t a l s	\$21,815.35	\$25,091.88	\$25,114.63	\$27,172.94	\$29,688.09
Less/-					
Reduction in connection with adjustment of renewal reserve rate from 2.50% to 1.25%	3,476.36	2,539.14	2,654.31	2,656.63	none
Adjusted Revenue -	\$19,338.99	\$22,552.74	\$22,460.32	\$24,516.31	\$29,688.09
Total Cost of Power					

The costs of power grouped under various headings for

... of ... in the ...
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... in 1941 ...
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Table 1	
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Table 2

The ... of ...

the years 1918 to 1922, inclusive, after deduction from "Provision for Renewals" of the amounts attributable to each of the years of the reduction of renewal reserve effected by the change of the annual renewal rate from 3.5% to 2.5% on capital cost, appear in the next table. The provision for renewals and consequent total expenses for the several years prior to 1922 are subject to further reduction, in giving effect to the reduction of the annual renewal rate from 2.5% to 1.25%, the effect of which is shown in the table.

Table of Total Annual Costs of Power

Particulars	Fiscal Year ending October 31st				
	1918	1919	1920	1921	1922
Operating Expenses -	\$ 4,312.35	\$ 5,104.71	\$ 5,373.85	\$ 5,521.73	
Maintenance Expenses -	2,160.00	3,061.28	1,696.02	2,752.05	\$12,464.62
Overhead Expenses -	2,159.89	2,711.79	2,705.47	2,832.36	
Interest	7,930.95	8,802.57	9,661.89	9,670.16	9,447.88
Provision for Renewals -	4,956.75	5,078.29	5,308.63	5,313.27	2,659.87
Provision for Sinking Fund	-	-	-	750.60	3,743.41
Provision for Contingencies	247.23	296.47	337.50	301.80	1,342.60
Total -	\$21,777.15	\$25,055.11	\$25,083.36	\$27,141.97	\$29,658.38
Less -					
Reduction in Renewal Provision -	2,478.36	2,539.14	2,654.31	2,656.63	none
Adjusted Costs -	\$19,298.79	\$22,515.97	\$22,429.05	\$24,485.34	\$29,658.38

The first part of the report, entitled "General Information", contains a description of the work done during the year. It also contains a list of the names of the persons who have been employed during the year, and a list of the names of the persons who have been employed during the year.

Table of Total Annual Costs of Power

1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	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Balances of revenues over total costs in each of the above years, representing profit on power sold to sundry customers, were transferred to Contingency Reserve Account.

Costs per Horse-power

The following table showing the detailed costs per horse-power billed illustrates in what respects and to what extent the operating expenses and fixed charges have varied:

Particulars	Fiscal year ending October 31st				
	1918	1919	1920	1921	1922
Operation	\$4.40	\$ 4.30	\$ 3.98	\$ 4.58)	
Maintenance	2.22	2.58	1.26	2.28)	\$ 9.28
Overhead & General Expenses	2.21	2.29	2.00	2.35)	
Interest	8.09	7.42	7.16	8.02	7.03
Renewals	2.53	2.15	1.96	2.19	1.98
Sinking Fund				.62	2.78
Contingencies	.25	.25	.25	.25	1.00
	\$19.68	\$18.99	\$16.61	\$20.29	\$23.07

The items in the above table for "Renewals" and the totals of cost reflect the retroactive renewal rate of 1.25% on capital established by the Commission in December, 1922.

Reserve for Renewals

The balance in the reserve for renewals in respect of properties of the Muskoka System on October 31st, 1921, after adjustment to that date of the renewal reserve account following the reduction of the annual rate from 3½% to 2½%, amounted to \$25,471.39.

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TABLE I					Total
Year	1911	1912	1913	1914	
1911	100	100	100	100	400
1912	100	100	100	100	400
1913	100	100	100	100	400
1914	100	100	100	100	400
Total	400	400	400	400	1600

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The further reduction made in December, 1922, of the annual renewal rate to $1\frac{1}{2}\%$ resulted in a reduction of this balance of \$25,471.39 by \$13,393.99, or to \$12,072.40. Of the reduction of \$13,393.99 in the reserve for renewals, \$13,393.92 was applied as credits to the municipalities and \$15.07 as an addition to the reserve for contingencies.

On October 31st, 1922, the reserve for renewals amounted to \$15,215.17, having increased to that amount by the addition of the provision therefor in power costs for the fiscal year ending on that date and of interest accretions for that year.

Prior to the revision of the annual renewal rate in December, 1922, our Consulting Engineer reported that the amount shown to the credit of the reserve for renewals on October 31st, 1921, was somewhat larger than was necessary. He has not yet reported upon the amount of the reduction actually made. The general subject of reserve for renewals we propose dealing with in our General Report.

Reserve for Sinking Fund

Under the agreement between the Commission and the municipal corporation of the town of Gravenhurst, dated October 25th, 1915, the corporation agreed to pay annually to the Commission its "proportionate part of interest and sinking fund (based on the quantity of electrical energy or power taken) on all monies expended by the Commission on capital

The Commission has been informed that the annual financial statement for the year 1954, as submitted by the Commission, shows a deficit of \$1,000,000. This deficit is due to the fact that the Commission has not received the necessary funds from the Government to cover its operating expenses. The Commission has requested the Government to provide the necessary funds to cover its operating expenses for the year 1954.

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The Commission has also been informed that the annual financial statement for the year 1955, as submitted by the Commission, shows a deficit of \$2,000,000. This deficit is due to the fact that the Commission has not received the necessary funds from the Government to cover its operating expenses. The Commission has requested the Government to provide the necessary funds to cover its operating expenses for the year 1955.

Respectfully,
The Commission

The Commission has also been informed that the annual financial statement for the year 1956, as submitted by the Commission, shows a deficit of \$3,000,000. This deficit is due to the fact that the Commission has not received the necessary funds from the Government to cover its operating expenses. The Commission has requested the Government to provide the necessary funds to cover its operating expenses for the year 1956.

account for the acquiring of properties and rights and acquiring and construction of generating plants, transformer stations, transmission lines, distributing stations and other works necessary for the delivery of said electrical power or energy to the corporation under the terms of this agreement." Provision was further made that the agreement should "remain in force for sixteen years from the date of the first delivery of power under this contract." This date was November 1st, 1915.

Until 1918 the Power Commission Act required a municipal corporation to pay to the Commission as part of the cost of power "an annual sum sufficient to form in thirty years a sinking fund for retirement of the securities by Ontario under this Act for the payment of the cost of the works." In 1918 this Act was amended by adding the words, "with interest at four per cent. per annum" after the words "sinking fund", and substituting the words "the repayment of the advances made" for the words, "retirement of securities." The South Falls generating works as acquired by the Commission were the only works "necessary for the delivery of said electrical power or energy to the corporation," and the only monies so far expended on capital account for acquiring these works are the monies paid by the Commission for principal, interest and sinking fund towards retiring the debentures of the corporation which were assumed by the Commission as the consideration for the sale of the South Falls generating plant by the corporation. Annual payments totalling \$3,849.10 are

in the event of a change of control, the Company shall have the right to require the transferee to purchase the Company's securities on a parity basis with the transferee's securities. The Company shall also have the right to require the transferee to purchase the Company's securities on a parity basis with the transferee's securities.

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required to be made by the Commission to retire at maturity the debentures assumed. The Commission has treated the original amount of the debentures assumed - \$50,595.93 - as "advances made by Ontario." It annually apportions \$50,311.92 of the \$50,595.93 between the municipal corporations of Gravenhurst and Huntsville, and \$284.01 to sundry customers, as the amounts in respect of which annual payments commencing in the sixth year of operation shall be respectively made by the municipal corporations on account of sinking fund, and has fixed the annual payments on the basis of forming in thirty years, with interest at the rate of four per cent. per annum, a sinking fund for payment to the Commission of the \$50,595.93. Interest on this amount is also included in the annual costs of power payable by the corporations and others. In effect the Commission has proceeded as if the \$50,595.93 was advanced in 1915 by the Province under the Power Commission Act, as it clearly was not, the only possible advances by the Province for the cost of the works being the annual payments made on account of the debentures assumed.

Of the original amount - \$50,595.93 - of the debentures assumed, \$38,532.26 will be retired by the annual payments made by the Commission, in 1936, \$7,893.18 in 1939 and \$4,370.52 in 1943. Sinking fund payments made by the municipal corporations and others will not amount, on the basis adopted, to \$50,595.93 until 1952. The present contract with the municipal corporation of Gravenhurst will expire.

unless renewed for a farther term, on November 1st, 1931, and that with the municipal corporation of Huntsville on August 25th, 1932.

The expenditure by the Commission from monies advanced by the Province on the extension and improvement of the South Falls plant and on transmission lines, etc., to supply the municipality of Huntsville with power, amounted to \$152,194.69. To provide a sinking fund sufficient in thirty years with interest at four per cent. per annum for repayment of this amount an annual payment on the basis of 1.8 per cent. and commencing October 31st, 1922, is being charged the corporation in addition to the annual payment on sinking fund account in respect of the corporation's proportion of the original cost of the South Falls plant.

The amount charged on sinking fund account as part of the cost of power to the corporation of Gravenhurst amounted to \$1,419.04 for two years ending October 31st, 1922. The corporation of Huntsville was charged for the first time on sinking fund account in 1922, the amount of the charge being \$3,069.84. The sum of \$5.13 was apportioned to "sundry customers" to October 31st, 1922. On October 31st, 1922, the amount of the reserve for sinking fund of the system, including interest credited at the rate of four per cent. per annum, was \$4,524.03.

Under the agreement of March 10th, 1915, the municipal corporation of the town of Huntsville agreed "to pay an annual sinking fund instalment of such amount as to form at the end of

sixteen years, with accrued interest, a sinking fund sufficient to repay the corporation's proportionate part of all moneys advanced by the Province."

Reserve for Contingencies

The balance in the reserve for contingencies at October 31st, 1921, amounted to \$1,911.14, and on October 31st, 1922, to \$3,375.57.

The reserve for contingencies was established by the Commission for the purpose of providing for special losses or expenses not arising at regular intervals and not wholly applicable to the period in which incurred. The contingency reserve for this system was, until October 31st, 1921, provided through a charge of 25 cents per horse-power included in the costs of power supplied each year to the municipalities and others, together with the interest at 4 per cent. per annum on the balance in the reserve account at the beginning of the year. In 1922 the charge was increased to \$1.00 per horse-power.

In respect of the adequacy of the contingencies reserve as at October 31st, 1921, our Consulting Engineer states as follows:

"Considering the heavy losses which might be occasioned through catastrophe or other contingencies, it is considered that the total amount at the credit of this fund, namely \$1,911, should be augmented by increasing the annual allowance for contingencies and when a reserve of say \$5,000 or \$10,000 will have been built up, the rates can be readjusted to suit the conditions found after several further years of experience."

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in respect of the adequacy of the consideration for
the sale of the property, and the fact that the
sale was made for the purpose of raising money for
the benefit of the children of the deceased.

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Accounts with Municipal Corporations

These are of two classes:-

- (a) Power Accounts Receivable, being unpaid balances in respect of interim power bills rendered monthly to the corporations.
- (b) Due by or to municipal corporations on annual adjustment by the Commission of power costs for the year.

(a) Interim accounts appear to have been paid currently by the municipal corporations in the system.

(b) On October 31st, 1922, there was a debit balance against the municipal corporation of Gravenhurst of \$3,764.15, and a credit balance to the municipal corporation of Huntsville of \$11,534.56. The transfer of \$13,383.92 from Renewal Reserve to the credit of the municipal corporations is reflected in these balances.

RESULTS OF OPERATION

- (A) - ESTIMATED POWER LOADS COMPARED WITH ACTUAL POWER LOADS TO OCTOBER 31ST, 1922.

Municipality of Gravenhurst

For each of the years 1918 to 1922 (inclusive) the actual power load exceeded the estimated load. The estimated load was 300 horse-power. The actual load was:

For the year ending October 31st, 1918	-	312.6
For the year ending October 31st, 1919	-	359.3
For the year ending October 31st, 1920	-	478.4
For the year ending October 31st, 1921	-	368.2
For the year ending October 31st, 1922	-	361.9

Average load - 376.1.

Summary of Findings

There are two classes:

(1) First-class business, which is the highest in respect of income tax and is subject to the highest rate.

(2) Second-class business, which is the lowest in respect of income tax and is subject to the lowest rate.

(a) Income tax is subject to the highest rate.

Summary of the findings of the Commission in the year 1914.

(b) The findings of the Commission in the year 1914.

Summary of the findings of the Commission in the year 1914.

Summary of the findings of the Commission in the year 1914.

Summary of the findings of the Commission in the year 1914.

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Summary of the findings of the Commission in the year 1914.

(a) - Summary of the findings of the Commission in the year 1914.

Summary of Findings

The work of the Commission in the year 1914.

Summary of the findings of the Commission in the year 1914.

Summary of the findings of the Commission in the year 1914.

1914	1915	1916	1917	1918	1919
1914	1915	1916	1917	1918	1919
1914	1915	1916	1917	1918	1919
1914	1915	1916	1917	1918	1919
1914	1915	1916	1917	1918	1919
1914	1915	1916	1917	1918	1919

Average load - 1914.

Municipality of Huntville

The Commission submitted to this municipality estimates of cost per horse-power based on estimated supply of 700 or 800 horse-power. The actual loads exceeded the higher estimated load in each year from 1919 to 1922, inclusive. In 1918 the actual load was less than the lower estimated load. The actual load for each of the years 1918 to 1922, inclusive, was:

For the year ending October 31st, 1918 - 667.3
For the year ending October 31st, 1919 - 826.6
For the year ending October 31st, 1920 - 871.6
For the year ending October 31st, 1921 - 839.0
For the year ending October 31st, 1922 - 930.7

Average load - 837.04

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(B) - ESTIMATED COST PER HORSE-POWER COMPARED
WITH ACTUAL COST PER HORSE-POWER.

Municipality of Gravenhurst

Under date of July 27th, 1915, the Commission submitted an estimate of cost to the municipality of Gravenhurst of \$15.51 per horse-power for a supply of 300 horse-power per annum. The actual load for each of the years 1918 to 1922, inclusive, exceeded 300 horse-power as is shown above.

Without effect being given to the reduction in renewal reserve in December, 1922, and consequent credit to the municipality for the years 1918 to 1921, inclusive, the actual cost per horse-power for each year as compared with the estimated cost of \$15.51 was:

Estimate of Requirements

The following estimate is based on the assumption that the estimated supply of power at the station will be sufficient to meet the estimated load. The actual load in each year from 1955 to 1960, inclusive, is shown in Table 1. The actual load in each year from 1955 to 1960, inclusive, is shown in Table 1. The actual load in each year from 1955 to 1960, inclusive, is shown in Table 1.

Table 1

Year	Estimated load (kW)
1955	1,000
1956	1,000
1957	1,000
1958	1,000
1959	1,000
1960	1,000

Total load - 6,000 kW

(1) - Estimated load in each year from 1955 to 1960, inclusive.

Estimate of Requirements

The following estimate is based on the assumption that the estimated supply of power at the station will be sufficient to meet the estimated load. The actual load in each year from 1955 to 1960, inclusive, is shown in Table 1. The actual load in each year from 1955 to 1960, inclusive, is shown in Table 1. The actual load in each year from 1955 to 1960, inclusive, is shown in Table 1.

For the year ending October 31st, 1918 - \$17.16 per h.p.
 For the year ending October 31st, 1919 - \$17.09 "
 For the year ending October 31st, 1920 - \$14.43 "
 For the year ending October 31st, 1921 - \$19.10 "
 For the year ending October 31st, 1922 - \$17.61 "

The apportionment of the amount transferred from renewal reserve to the credit of the municipality will materially reduce above costs for the years 1918 to 1921, inclusive. As an indication of the amount of the reduction, the 1921 cost of \$19.10 would be \$17.89 after applying the credit.

Municipality of Huntville

The estimates of cost submitted to this municipality were as follows.

	On basis of Contract for	
	15 yrs.	20 yrs.
For 700 horse-power	\$29.63	\$26.82
For 800 horse-power	25.92	25.02.

The contract made covered a period of sixteen years and for the years 1919 to 1922, inclusive, the actual loads, as mentioned above, exceeded 800 horse-power, and the actual cost per horse-power for each of these years, as well as for the year 1918 when the load was less than 700 horse-power, was less than the lowest estimated cost furnished by the Commission under a contract for twenty years. Before giving effect for the years 1918 to 1921, inclusive, to the retroactive revision of annual renewal rate made by the Commission in December, 1922, before referred to, and consequent credit to the municipality,

the actual cost per horse-power was:

For the year ending October 31st, 1918	- \$24.32 per h.p.
For the year ending October 31st, 1919	- \$22.85 "
For the year ending October 31st, 1920	- \$20.84 "
For the year ending October 31st, 1921	- \$23.94 "
For the year ending October 31st, 1922	- \$23.72 "

Apportionment of the amount credited to the municipality, deducted from renewal reserve following the reduction in December, 1922, of the annual renewal rate, will materially reduce the actual cost as shown above for the years 1918 to 1921, inclusive, and reduce same further below the estimated cost.

In considering the foregoing comparison of estimated costs with actual costs, it is to be borne in mind that in the case of each municipality payments on account of sinking fund for the first five years in which power was supplied were deferred and that the first payment made by the municipality of Gravenhurst was in 1921 and that by the municipality of Huntsville in 1922.

Supply of Power for Future Requirements

The present South Falls works of the system will doubtless in a short time be inadequate to produce sufficient power to meet an increased demand in the system. The municipally owned plant of the town of Bracebridge is of insufficient capacity to supply that municipality with its present requirements and a contract for the necessary additional power may be made with the Commission. It is stated that about

(20)

For the year ending 1933 - 1934

For the year ending 1934 - 1935
For the year ending 1935 - 1936
For the year ending 1936 - 1937
For the year ending 1937 - 1938
For the year ending 1938 - 1939

Approximation of the amount involved in the matter

During the period from January 1933 to December, 1933, of the annual renewal rate, will materially reduce the total cost of the year, 1933 to 1934, inclusive, and reduce some further when the estimated cost.

In estimating the foregoing comparison of estimated

costs with actual costs, it is to be borne in mind that in the case of the latter, the figures are subject to change and that the first five years in which the figures were collected and that the first figures were of the municipality of Knoxville in 1933.

Amount of cost for the year 1933-1934

The present total bill under the plan will be \$100,000. It is to be borne in mind that the present total bill is subject to change and that the first five years in which the figures were collected and that the first figures were of the municipality of Knoxville in 1933.

4,000 additional horse-power can be made available from the South Falls power site without the necessity of any additional structures or the further purchase of properties. At High Falls on the north branch of the Muskoka River, about eight miles north of the South Falls plant and about 21 miles from the town of Huntsville there is an undeveloped hydro-electric power site stated to have a capacity of about 1800 water horse-power obtainable at the head of 44 feet. A dam at this point would improve the low water conditions of the hydro-electric plants owned by the municipality of Bracebridge, and located further down the stream. The proximity of this site to the existing high voltage transmission line from the South Falls generating station to Huntsville would permit of the parallel operation of the South Falls plant and a plant at High Falls with the construction of only about one mile of additional transmission line. The development might prove economically feasible. There are other power sites in the district of Muskoka that might be utilized for the production of additional power for the system.

Complaints against the rates charged
for Power to the System

No special public hearing was held in respect of the system, but correspondence on the files of the Commission indicates that there was dissatisfaction expressed by some of the electors of Gravenhurst at the rates charged for power to that municipality.

Mr. Butterworth, a member of the Gravenhurst Commission, gave evidence before us at a general hearing on April 25th, 1923, and made the following statements:

"The original proposal was power at \$10.00 per horse-power, and we were told that if Hydro took it over we should probably get it at \$8.00, certainly less than \$10.00, but we are now paying \$20.00.

"We find quite a difficulty in getting men who are willing to sit on the Commission; they take the view that the Hydro control it to such an extent that they might as well stay at home and let Hydro control the whole thing. We have no power to fix the rate that shall be charged and we have no voice in determining what expenditure shall be incurred and we have simply to take our instructions from the Hydro Commission."

"Then we have Bracebridge; they can generate power and sell it to their manufacturers at \$12.66 a horse-power. I was talking to their Mayor a few weeks ago. They are not on the Hydro and, they tell you, you could not chase them on the Hydro, although they would like to have more power. They are operating their plant at \$12.66 a horse-power. The Mayor was for a long time on the Commission and he claims they are absolutely sound."

Our Accountants have reported that the estimated cost of power submitted by the Commission to the town of Gravenhurst, based on a load of 300 horse-power, was \$15.51 per horse-power. The actual cost of power to the municipality, as given on pages 13 and 19 hereof, shows that the consumers of power have no cause of complaint as to the rates charged, and should have relied on the estimate submitted rather than on optimistic statements regarding probable results.

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April 18th, 1912, and was the following statement:

7700 Atlantic Boulevard was power in 1938.40
and 1940.40, and in 1941.40 it
was 1941.40. It was in 1941.40
in 1941.40, certainly 1941.40, and in
the new power 1941.40.

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the People of the East (CLPE) in the United States. The Commission is therefore unable to determine whether the CLPE is a genuine organization or a front organization for the Soviet Union.

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10. Other _____

[illegible]

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and should have called on the author well before this

[illegible]

Conclusion

We desire to direct special attention to the present position in regard to the sinking fund of the system, payments on account of which do not appear to be in accordance with either The Power Commission Act or the contracts with the municipal corporations. Serious complications may arise at the termination of the sixteen-year contracts with the two municipal corporations in adjusting the respective rights of the Province, the Commission and the municipalities if present conditions as to sinking fund reserve remain unchanged.

All of which is respectfully submitted.

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DATED AT TORONTO, *Sept 21st* 1923

W. D. Gregory, Chairman
M. J. Haney
Lloyd Harris
J. Allan Ross
R. A. Ross

